

IEA ECBCS Annex 46

Subtask D: IT-Toolkit "EnERGo"

Joint Activity

Scope

Development of an electronic interactive sourcebook based on the results of Subtasks A, B and C.

EnERGo

Integrating Subtask D:

Subtask A

Develop an energy assessment and analysis methodology/protocol and a tool "Energy Assessment Guide for Energy Managers and ESCOs"

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Subtask B

Develop a database of "Energy Saving Technologies and Measures for Government Building Retrofits" with examples of best practice T

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Subtask C

Develop "Best-practice Guidelines for innovative Energy Performance Contracts" K

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Approach

Central database, which will include all Annex results and will allow users to obtain extensive information according to the individual focus of interest.

The users may chose between analysing design scenarios individually or they may access a broader pool of information on energy saving potentials and requirements by using experiences gained from "best practice" examples.

Based on the Energy Concet Adviser (ECA) tool developed in Annex 36: a package of selected analysis tools, that take into account the impact of light, cooling, heating as well as process requirements in buildings on comfort and energy criteria.

The focus will be on interfaces to allow different national calculation engines

It will also include findings from several other IEA Annexes (e.g. Annex 37 "Low Exergy Systems for Heating and Cooling of Buildings")



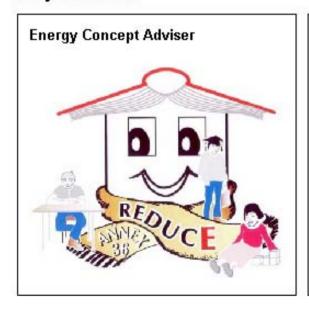
Background

The education of a nation's population is the foundation for its improvement and growth in the international community. Educational buildings are the cornerstone of this foundation and they consume a large portion of a nation's non-industrial energy needs. In this international project energy efficient retrofit measures for existing educational buildings are being analysed. The gathered know-how gained in exemplary retrofit projects in the participating countries. Additionally a software tool (the Energy Concept Adviser) is developed that gives advice on energy-efficient retrofit measures to decision makers in administrations.

Project goals:

- To provide tools and guidelines for decision makers and designers to improve the learning and teaching environment of educational facilities through energy- efficient retrofitting.
- To support the decision makers in evaluating the efficiency and acceptance of available concepts.
- To give recommendations on how to operate the retrofitted buildings.
- To promote energy- and cost-efficient retrofit measures.

Project Result:



All Reports

- Subtask A: Selection and Analysis of Existing Information
- ► Subtask B: Case Studies
- Subtask C: Software Development and Analysis Methods

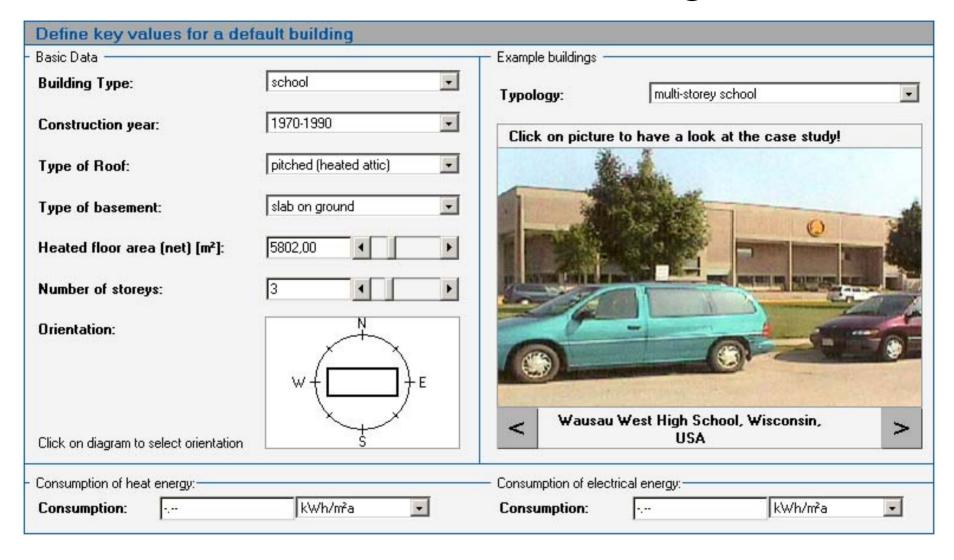
Additional Information

- ▶ Additional Case Studies
- ► Publications

Major Value Added Features

- tools that identify potential areas of improvement (Energy Assessment Protocol) -> Subtask A
- increased number of the energy efficient technologies and measures (database of "Energy Saving Technologies and Measures for Government Building Retrofits") -> Subtask B
- tailored recommendations on their pratical implementation (best practice guidelines for innovative energy performance contracts) -> Subtask C

Extension of Standard Building Datasets



Subtask D: IT-Toolkit: Energy Concept Development

